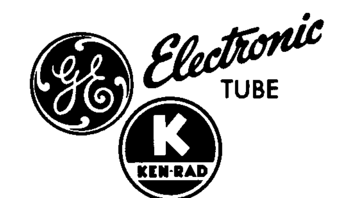


32L7-GT

Description and Rating

RECTIFIER-BEAM POWER AMPLIFIER

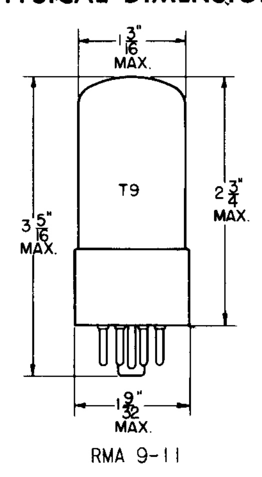
GENERAL DESCRIPTION

Principal Application: The 32L7-GT is a multipurpose tube, consisting of a beam power amplifier and half-wave rectifier. The tube is designed for use as the combined power rectifier and power amplifier in a-c/d-c receivers.

Cathodes: . . . . Coated Unipotential
Heater Voltage (A-C or D-C) . . . . 32.5 Volts
Heater Current . . . . 0.3 Ampere

Envelope: . . . . T-9, Glass
Base: . . . . . B8-6, Intermediate Shell Octal 8-Pin
Mounting Position: . . . . Any

PHYSICAL DIMENSIONS

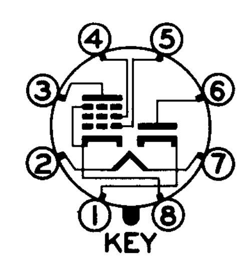


RMA 9-11

TERMINAL CONNECTIONS

Pin 1 - Rectifier Cathode
Pin 2 - Heater
Pin 3 - Amplifier Plate
Pin 4 - Amplifier Grid Number 2 (Screen)
Pin 5 - Amplifier Grid Number 1
Pin 6 - Rectifier Plate
Pin 7 - Heater
Pin 8 - Amplifier Cathode and Beam Plates

BASING DIAGRAM



RMA 8Z
BOTTOM VIEW

DESIGN CENTER VALUES:

MAXIMUM RATINGS

RECTIFIER SECTION

A-C Plate Supply Voltage (RMS)	125	Volts
D-C Output Current	60	Milliamperes

CHARACTERISTICS AND TYPICAL OPERATION

AMPLIFIER SECTION (CLASS A_1 AMPLIFIER)

Plate Voltage	90	90	Volts
Screen Voltage	90	90	Volts
Grid Number 1 Voltage*	-5	-7	Volts
Plate Resistance	15000	17000	Ohms
Transconductance	6000	4800	Micromhos
Plate Current	38	27	Milliamperes
Screen Current	3.0	2.0	Milliamperes
Load Resistance	2600	2600	Ohms
Total Harmonic Distortion	5.3	9.0	Per Cent
Second Harmonic Component	2.2	6.5	Per Cent
Third Harmonic Component	4.6	5.5	Per Cent
Maximum-Signal Power Output	0.8	1.0	Watt

** The d-c resistance in the grid circuit should not exceed 0.5 megohm.*

Tube Divisions, Electronics Department



Schenectady, N. Y.

ET-T750
12-50